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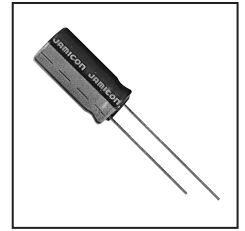
RADIAL TYPE

SK Series

Standard, For General Purposes

JAMICON®

- SK series has high value of CV for general purposes.



● SPECIFICATION

| Item | Characteristic | | | | | | | | | | | | | | | | |
|--|---|-----------------------------------|------|------|------|------|------|------|-------------------------------------|--------|------|---------|------|---------|------|-----|--|
| Operation Temperature Range | -40 ~ +85°C | | | | | | | | -25 ~ +85°C | | | | | | | | |
| Rated Working Voltage | 6.3 ~ 100VDC | | | | | | | | 160 ~ 450VDC | | | | | | | | |
| Capacitance Tolerance (120Hz 20°C) | ±20%(M) | | | | | | | | | | | | | | | | |
| Leakage Current (20°C) | 6.3~100 VDC I ≤ 0.01CV or 4 (μA) | | | | | | | | 160~450 VDC I ≤ 0.03CV + 40 (μA)max | | | | | | | | |
| | *Whichever is greater after 3 minutes I : Leakage Current(μA) C : Rated Capacitance(μF) V : Working Voltage(V) | | | | | | | | | | | | | | | | |
| Surge Voltage (20°C) | W.V. | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 | 250 | 350 | 400 | 450 | | |
| | S.V. | 8 | 13 | 20 | 32 | 44 | 63 | 79 | 125 | 200 | 250 | 300 | 400 | 450 | 500 | | |
| Dissipation Factor (tan δ) (120Hz 20°C) | Add 0.02 per 1000 μF for more than 1000 μF | | | | | | | | | | | | | | | | |
| | W.V. | 6.3 | 10 | 16 | 25 | 35 | 50 | 63 | 100 | 160 | 200 | 250 | 350 | 400 | 450 | | |
| | tan δ | 0.22 | 0.19 | 0.16 | 0.14 | 0.12 | 0.10 | 0.10 | 0.08 | 0.15 | 0.15 | 0.15 | 0.20 | 0.20 | 0.20 | | |
| Low Temperature Stability | Impedance ratio at 120Hz | | | | | | | | | | | | | | | | |
| | Rated Voltage (V) | 6.3 | | 10 | | 16 | | 25 | | 35~100 | | 160~250 | | 350~400 | | 450 | |
| | -25°C / +20°C | 4 | | 3 | | 2 | | 2 | | 2 | | 3 | | 6 | | 15 | |
| | -40°C / +20°C | 8 | | 6 | | 4 | | 3 | | 3 | | 6 | | 6 | | — | |
| Load Life | After 2000 hours application of W.V. and +85°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage ≤ rate working voltage) | | | | | | | | | | | | | | | | |
| | Capacitance Change | ≤ ±20% of initial value | | | | | | | | | | | | | | | |
| | Dissipation Factor | ≤ 150% of initial specified value | | | | | | | | | | | | | | | |
| | Leakage current | ≤ initial specified value | | | | | | | | | | | | | | | |
| Shelf Life | At +85°C no voltage application after 1000 hours the capacitor shall meet the following limits. (with voltage treatment) | | | | | | | | | | | | | | | | |
| | Capacitance Change | ≤ ±20% of initial value | | | | | | | | | | | | | | | |
| | Dissipation Factor | ≤ 200% of initial specified value | | | | | | | | | | | | | | | |
| | Leakage current | ≤ 200% of initial specified value | | | | | | | | | | | | | | | |

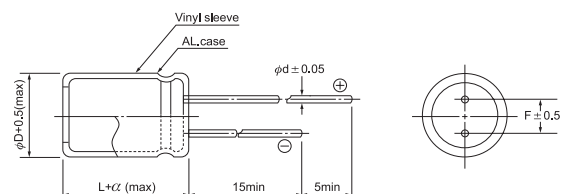
● DIMENSIONS (mm)

| φD | 5 | 6.3 | 8 | 10 | 12.5 | 16 | 18 | 22 | 25 |
|----|-----|-----|-----|-----|------|-----|-----|------|------|
| F | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 | 10.0 | 12.5 |
| d | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 | 1.0 | 1.0 |
| α | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2.0 | 2.0 |

● RIPPLE CURRENT COEFFICIENTS

| Temperature(°C) | 65 | 75 | 85 |
|-----------------|------|------|------|
| Multiplier | 1.25 | 1.14 | 1.00 |

| Frequency(Hz) | 60 | 120 | 1k | ≥10k |
|---------------|------------|------|------|------|
| W.V. | Multiplier | | | |
| 6.3~25V | 0.85 | 1.00 | 1.10 | 1.20 |
| 35~100V | 0.80 | 1.00 | 1.15 | 1.25 |
| 160~250V | 0.75 | 1.00 | 1.25 | 1.40 |
| 350~450V | 0.70 | 1.00 | 1.30 | 1.50 |



● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)
Max ripple current : mA(rms) 85°C 120Hz

| μF | V(Code) | | 6.3 (0J) | | 10 (1A) | | 16 (1C) | |
|-------|---------|------|----------|------|---------|------|---------|------|
| | Code | Item | DxL | R.C. | DxL | R.C. | DxL | R.C. |
| 47 | 470 | | | | | | 5x11 | 130 |
| 100 | 101 | | 5x11 | 160 | 5x11 | 170 | 6.3x11 | 210 |
| 220 | 221 | | 5x11 | 240 | 5x11 | 250 | 6.3x11 | 310 |
| | | | 6.3x11 | 270 | 6.3x11 | 290 | 8x11.5 | 370 |
| 330 | 331 | | 6.3x11 | 330 | 6.3x11 | 350 | 8x11.5 | 450 |
| | | | 8x11.5 | 380 | 8x11.5 | 410 | 10x12.5 | 470 |
| 470 | 471 | | 6.3x11 | 390 | 6.3x11 | 420 | 8x11.5 | 540 |
| | | | 8x11.5 | 460 | 8x11.5 | 490 | 10x12.5 | 560 |
| 1000 | 102 | | 8x11.5 | 670 | 10x12.5 | 760 | 10x16 | 920 |
| | | | 10x12.5 | 700 | 10x16 | 840 | 10x20 | 1010 |
| 2200 | 222 | | 10x16 | 1110 | 10x20 | 1310 | 12.5x20 | 1510 |
| | | | 10x20 | 1220 | 12.5x20 | 1390 | 12.5x25 | 1660 |
| 3300 | 332 | | 10x20 | 1440 | 12.5x20 | 1630 | 12.5x25 | 1930 |
| | | | 12.5x20 | 1530 | 12.5x25 | 1800 | 16x25 | 1940 |
| 4700 | 472 | | 12.5x20 | 1730 | 12.5x25 | 2020 | 16x25 | 2160 |
| | | | 12.5x25 | 1910 | 16x25 | 2030 | 16x31.5 | 2390 |
| 6800 | 682 | | 12.5x25 | 2160 | 16x25 | 2270 | 16x31.5 | 2650 |
| | | | 16x25 | 2170 | 16x31.5 | 2510 | 18x35.5 | 2980 |
| 8200 | 822 | | 16x25 | 2280 | 16x31.5 | 2630 | 16x35.5 | 2910 |
| | | | 16x31.5 | 2520 | 18x35.5 | 2960 | 18x40 | 3280 |
| 10000 | 103 | | 16x25 | 2390 | 16x35.5 | 2900 | 18x35.5 | 3230 |
| | | | 16x31.5 | 2640 | 18x35.5 | 3090 | 18x40 | 3400 |
| 15000 | 153 | | 16x35.5 | 3050 | 18x35.5 | 3360 | 22x40 | 4090 |
| | | | 18x35.5 | 3260 | 18x40 | 3540 | 22x50 | 4520 |
| 22000 | 223 | | 18x40 | 3680 | 22x50 | 4650 | 25x50 | 5120 |

| μF | V(Code) | | 25 (1E) | | 35 (1V) | | 50 (1H) | |
|-------|---------|------|---------|------|---------|-------|---------|------|
| | Code | Item | DxL | R.C. | DxL | R.C. | DxL | R.C. |
| 0.47 | R47 | | | | | → | 5x11 | 16 |
| 1 | 010 | | | | | → | 5x11 | 24 |
| 2.2 | 2R2 | | | | | → | 5x11 | 35 |
| 3.3 | 3R3 | | | | | → | 5x11 | 43 |
| 4.7 | 4R7 | | | | | → | 5x11 | 50 |
| 10 | 100 | | 5x11 | 60 | 5x11 | 70 | 5x11 | 75 |
| 22 | 220 | | 5x11 | 95 | 5x11 | 100 | 5x11 | 110 |
| | | | 5x11 | 110 | 5x11 | 120 | 5x11 | 140 |
| 33 | 330 | | 6.3x11 | 130 | 6.3x11 | 140 | 6.3x11 | 150 |
| | | | 5x11 | 140 | 5x11 | 150 | 6.3x11 | 180 |
| 47 | 470 | | 6.3x11 | 160 | 6.3x11 | 170 | 8x11.5 | 210 |
| | | | 6.3x11 | 230 | 6.3x11 | 240 | 8x11.5 | 310 |
| 100 | 101 | | 8x11.5 | 260 | 8x11.5 | 290 | 10x12.5 | 330 |
| | | | 8x11.5 | 390 | 8x11.5 | 420 | 10x12.5 | 490 |
| 220 | 221 | | 10x12.5 | 410 | 10x12.5 | 450 | 10x16 | 540 |
| | | | 8x11.5 | 480 | 10x12.5 | 550 | 10x16 | 670 |
| 330 | 331 | | 10x12.5 | 510 | 10x16 | 610 | 10x20 | 730 |
| | | | 10x12.5 | 600 | 10x16 | 720 | 10x20 | 820 |
| 470 | 471 | | 10x16 | 670 | 10x20 | 800 | 12.5x20 | 930 |
| | | | 10x20 | 1080 | 12.5x20 | 1240 | 12.5x25 | 1500 |
| 1000 | 102 | | 12.5x20 | 1150 | 12.5x25 | 1370 | 16x25 | 1510 |
| | | | 12.5x25 | 1760 | 16x25 | 1890 | 16x35.5 | 2390 |
| 2200 | 222 | | 16x25 | 1770 | 16x31.5 | 2090 | 18x35.5 | 2550 |
| | | | 16x25 | 2040 | 16x35.5 | 2530 | 18x35.5 | 2890 |
| 3300 | 332 | | 16x31.5 | 2260 | 18x35.5 | 2700 | 18x40 | 3050 |
| | | | 16x31.5 | 2500 | 18x35.5 | 2960 | 22x45 | 3880 |
| 4700 | 472 | | 18x35.5 | 2810 | 18x40 | 3120 | | |
| | | | 18x35.5 | 3100 | 22x45 | 4020 | | |
| 6800 | 682 | | 18x40 | 3270 | | 25x50 | 4730 | |
| 8200 | 822 | | 22x45 | 4000 | 22x50 | 4350 | | |
| 10000 | 103 | | 22x50 | 4330 | 25x50 | 4800 | | |
| 15000 | 153 | | 25x50 | 4970 | | | | |

All blank voltage on sleeve marking is the same voltage as" → "point to.

● CASE SIZE & MAX RIPPLE CURRENT Case size : D x L (mm)
Max ripple current : mA(rms) 85°C 120Hz

| μF | V(Code) | | 63 (1J) | | 100 (2A) | |
|------|---------|------|---------|------|----------|------|
| | Code | Item | DxL | R.C. | DxL | R.C. |
| 0.47 | R47 | | | → | 5x11 | 18 |
| 1 | 010 | | | → | 5x11 | 26 |
| 2.2 | 2R2 | | | → | 5x11 | 39 |
| 3.3 | 3R3 | | | → | 5x11 | 48 |
| 4.7 | 4R7 | | | → | 5x11 | 55 |
| 10 | 100 | | 5x11 | 75 | 6.3x11 | 95 |
| 22 | 220 | | 5x11 | 110 | 6.3x11 | 140 |
| | | | 6.3x11 | 130 | 8x11.5 | 160 |
| 33 | 330 | | 6.3x11 | 150 | 8x11.5 | 200 |
| | | | 8x11.5 | 180 | 10x12.5 | 210 |
| 47 | 470 | | 6.3x11 | 180 | 10x12.5 | 250 |
| | | | 8x11.5 | 210 | 10x16 | 280 |
| 100 | 101 | | 10x12.5 | 330 | 10x20 | 450 |
| | | | 10x16 | 370 | 12.5x20 | 480 |
| 220 | 221 | | 10x16 | 540 | 12.5x25 | 790 |
| | | | 10x20 | 600 | 16x25 | 790 |
| 330 | 331 | | 10x20 | 730 | 12.5x25 | 960 |
| | | | 12.5x20 | 780 | 16x25 | 970 |
| 470 | 471 | | 12.5x20 | 930 | 16x25 | 1160 |
| | | | 12.5x25 | 1030 | 16x31.5 | 1280 |
| 1000 | 102 | | 16x25 | 1510 | 18x40 | 2220 |
| | | | 16x31.5 | 1670 | 22x35 | 2340 |
| 2200 | 222 | | 22x35 | 2830 | 25x50 | 3900 |
| 3300 | 332 | | 22x50 | 3760 | | |
| 4700 | 472 | | 25x50 | 4370 | | |

All blank voltage on sleeve marking is the same voltage as" → "point to.

| μF | V(Code) | | 160 (2C) | | 200 (2D) | | 250 (2E) | |
|------|---------|------|----------|------|----------|------|----------|------|
| | Code | Item | DxL | R.C. | DxL | R.C. | DxL | R.C. |
| 0.47 | R47 | | 6.3x11 | 17 | 6.3x11 | 18 | 6.3x11 | 20 |
| 1 | 010 | | 6.3x11 | 25 | 6.3x11 | 27 | 6.3x11 | 29 |
| 2.2 | 2R2 | | 6.3x11 | 37 | 6.3x11 | 39 | 6.3x11 | 43 |
| 3.3 | 3R3 | | 6.3x11 | 45 | 6.3x11 | 48 | 8x11.5 | 60 |
| 4.7 | 4R7 | | 6.3x11 | 55 | 8x11.5 | 65 | 8x11.5 | 75 |
| 10 | 100 | | 8x11.5 | 90 | 10x12.5 | 100 | 10x16 | 120 |
| 22 | 220 | | 10x16 | 160 | 10x20 | 190 | 12.5x20 | 220 |
| 33 | 330 | | 10x20 | 210 | 12.5x20 | 250 | 12.5x20 | 270 |
| 47 | 470 | | 12.5x20 | 270 | 12.5x20 | 290 | 12.5x25 | 350 |
| 100 | 101 | | 12.5x25 | 440 | 16x25 | 470 | 16x31.5 | 570 |
| 220 | 221 | | 16x35.5 | 760 | 18x40 | 920 | | |
| | | | 22x30 | 850 | 22x30 | 910 | 22x35 | 1060 |
| 330 | 331 | | 18x40 | 1050 | | | | |
| | | | 22x30 | 1040 | 22x40 | 1260 | 22x45 | 1450 |
| 470 | 471 | | 22x40 | 1400 | 22x45 | 1590 | 25x45 | 1850 |
| 560 | 561 | | 22x45 | 1610 | 22x50 | 1820 | 25x50 | 2120 |
| 680 | 681 | | 22x50 | 1860 | 25x50 | 2150 | | |
| 820 | 821 | | 25x50 | 2200 | | | | |

| μF | V(Code) | | 350 (2V) | | 400 (2G) | | 450 (2W) | |
|------|---------|------|----------|------|----------|------|----------|------|
| | Code | Item | DxL | R.C. | DxL | R.C. | DxL | R.C. |
| 0.47 | R47 | | 8x11.5 | 20 | 8x11.5 | 20 | 8x11.5 | 20 |
| 1 | 010 | | 8x11.5 | 29 | 8x11.5 | 30 | 8x11.5 | 29 |
| 2.2 | 2R2 | | 8x11.5 | 43 | 8x11.5 | 44 | 10x12.5 | 45 |
| 3.3 | 3R3 | | 10x12.5 | 55 | 10x12.5 | 55 | 10x16 | 60 |
| 4.7 | 4R7 | | 10x12.5 | 65 | 10x16 | 75 | 10x18 | 75 |
| 10 | 100 | | 10x20 | 120 | 12.5x20 | 130 | 12.5x20 | 130 |
| 22 | 220 | | 12.5x20 | 190 | 12.5x25 | 210 | 16x25 | 210 |
| 33 | 330 | | 12.5x25 | 250 | 16x25 | 260 | 16x31.5 | 280 |
| 47 | 470 | | 16x25 | 300 | 16x31.5 | 350 | 18x35.5 | 380 |
| | | | | | 22x30 | 410 | | |
| 100 | 101 | | 18x35.5 | 550 | 18x35.5 | 570 | 18x35.5 | 550 |
| | | | 22x35 | 610 | 22x40 | 670 | | |
| 150 | 151 | | 22x40 | 790 | 25x50 | 970 | | |
| 220 | 221 | | 22x50 | 1060 | | | | |